ABSTRACT

A stent comprises a tubular base body which is open on the front sides thereof and has a peripheral wall that is at least partially covered with a coating system consisting of at least one polymer carrier and at least one pharmacologically active substance, which is released into the surrounding tissue once the stent has been implanted in the human or animal body. The invention creates a coating system which enables an optimum local application of the active ingredient. A concentration of the substance, a morphological structure of the carrier(s), a material modification of the carrier(s), and/or a layer thickness of the carrier(s), are predetermined in the longitudinal direction of the stent, in such a way that the elution varies locally in the longitudinal direction of the stent and is determined according to the pathophysiological and/or rheological conditions to be expected during the application.